

ABSTRACT OF THE DISCLOSURE

A spray coolant reservoir system for increasing the efficiency and performance of a spray thermal management system. The spray coolant reservoir system includes a reservoir capable of storing a volume of coolant, a chassis with a spray chamber, a pump unit, an intake valve fluidly connected to the pump unit for providing coolant from the reservoir or the spray chamber, an output valve fluidly connected to the pump unit for controlling coolant flow from the pump unit to either the spray unit or the reservoir. The reservoir preferably includes a vent port, a fill port, and a chamber port. The chamber port is fluidly connected to the spray chamber for allowing control of the internal pressure within the spray chamber.